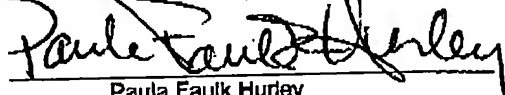


Application No.10/681,583  
Attorney Docket: CPAC 1029-5

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Paula Faulk Hurley

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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of: Marcos Karnezos	Attorney Docket No.: CPAC 1029-5
Application No.: 10/681,583	Examiner: Unassigned
Filed: October 8, 2003	Group: 2841
Title: Semiconductor Multi-Package Module Having Inverted Second Package Stacked Over Die-down Flip-chip Ball Grid Array (BGA) Package	Confirmation No.: 6814
	Customer No. 22470

**INFORMATION DISCLOSURE STATEMENT**

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

It is requested that the information identified in this statement be considered by the Examiner and made of record in the above-identified application. This statement is not intended to represent that a search has been made or that the information cited in the statement is, or is considered to be, material to patentability as defined in 37 C.F.R. 1.56.

Enclosed with this statement is a Form PTO/SB/08A. The Examiner is requested to initial the form and return it to the undersigned in accordance with M.P.E.P. 609.

Also enclosed with this statement is a copy of each cited document as required by 37 C.F.R. 1.98. However, since this application was filed after June 30, 2003, copies of U. S. Patents and U. S. Patent Application Publications are not enclosed. (See O. G. Notice of August 5, 2003.)

Also enclosed is a copy of a PCT Search Report mailed July 16, 2004 for a corresponding PCT Application.

Application No.10/681,583  
Attorney Docket: CPAC 1029-5

If a written English-language translation of a non-English language document, or portion thereof, is within the possession, custody or control of, or is readily available to any individual designated in 1.56(c), a copy of the translation accompanies this statement, 37 C.F.R. 1.98(a)(3)(ii).

This statement should be considered under 37 C.F.R. 1.97(b) because it is being filed before the mailing date of the first Office Action on the merits.

**Fee Authorization.** The Commissioner is hereby authorized to charge any additional fees or credit any overpayment associated with this communication to Deposit Account No. 50-0869 (CPAC 1029-5). A duplicate copy of this authorization is enclosed.

Respectfully submitted,  
Haynes Beffel & Wolfeld LLP

By:

 Reg. No. 33,407  
Bill Kennedy, Reg. No. 33,407

Date: August 5, 2004

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Aug. 5. 2004 2:11PM

Haynes Beffel & Wolfeld LLP

No.0844 P. 3

Application No.10/681,583  
Attorney Docket: CPAC 1029-5

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In re application of: Marcos Karnezos	Attorney Docket No.: CPAC 1029-5
Application No.: 10/681,583	Examiner: Unassigned
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P.O. Box 1450  
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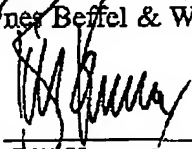
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Substitute for form 1449A/PTO			<b>Complete if Known</b>		
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)			Application Number	10/681,583	
			Filing Date	10/08/03	
			First Named Inventor	Marcos Karnezos	
			Group Art Unit	2841	
			Examiner Name	Unassigned	
Sheet	1	of	1	Attorney Docket Number	CPAC 1029-5

U.S. PATENT DOCUMENTS						
Examiner Initials <sup>1</sup>	Cite No. <sup>2</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>3</sup> (if known)			
	A1	5,994,166		Akram et al.	11-30-1999	
	A2	6,413,798		Asada	07-02-2002	
	A3	6,414,381		Takada	07-02-2002	
	A4	6,472,741		Chen et al.	10-29-2002	
	A5	6,552,423		Song et al.	04-22-2003	
	A6	6,590,281		Wu et al.	07-08-2003	
	A7	6,649,448		Tomihara	11-18-2003	
	A8	6,593,648		Emoto	07-15-2003	
	A9	6,734,539		Degani et al.	05-11-2004	
	A10	6,746,894		Fee et al.	06-08-2004	
	A11					
	A12					
	A13					
	A14					
	A15					
	A16					
	A17					
	A18					
	A19					
	A20					

FOREIGN PATENT DOCUMENTS								
Examiner Initials <sup>1</sup>	Cite No. <sup>2</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T <sup>3</sup>
		Office <sup>4</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
	B1	KR	2001068614	A	Hynix Semiconductor Inc.	07-23-2001		
	B2							
	B3							
	B4							
	B5							
	B6							
	B7							
	B8							
	B9							
	B10							

Examiner Signature	Date Considered
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/31987

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : H01L 23/02; H05K 7/20

US CL : 257/678,685-687,706,712,713, 720, 723,724,738,773,778-780,784,787,790,796; 361/704,705,707,709-711

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 257/678,685-687,706,712,713, 720, 723,724,738,773,778-780,784,787,790,796; 361/704,705,707,709-711

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X,P	US 6,414,381A (Takeda) 2 July 2002, col. 8 lines 35-67, col. 10 lines 15-67, and col. 11 lines 1-67.	1-9,11, 12, 15-17,19-34,38-40,43-55,57-64,66-70,72-90, 93-103,105-109, 112,113, 115-128, 131-147, 150, 151,153-168,174-176,178-188,190-200
Y,P	US 5,994,166A (Akram et al.) 30 November 1999, col. 7 lines 27-67 and col. 8 lines 1-65.	10,18,41,71,169-173,189
Y,P	US 6,649,448A (Tomihara) 18 November 2003, col. 7 lines 50-65, col. 8 1-65, and col 9 lines 1-67.	37,42,65,104,114,152, 177
Y,P	US 6,734,539A (Degani et al.) 11 May 2004, col. 1 lines 25-60 and col. 5 lines 15-65.	56,91,92,129,130
Y,P	US 6,552,423A (Song et al.) 22 April 2003, col. 3 lines 52-63.	13,14,35,36,110,111,148,149.

☐ Further documents are listed in the continuation of Box C.☐ See patent family annex.

Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another claim or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"Z" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

01 June 2004 (01.06.2004)

Date of mailing of the international search report

16 JUL 2004

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US

Commissioner for Patents

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